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PPLICATION NO	. F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/441,539		11/16/1999	STEVEN G. APEL	99-40170-US	99-40170-US 4490	
28977	7590	08/11/2006		EXAMINER		
MORGAN 1701 MAR	•	& BOCKIUS LLP	BROWN, RUEBEN M			
		A 19103-2921		ART UNIT PAPER NUMBER		
	·			2623		
				DATE MAILED: 08/11/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/441,539	APEL ET AL.			
Office Action Sumr	nary	Examiner	Art Unit			
		Reuben M. Brown	2623			
The MAILING DATE of this Period for Reply	communication app	ears on the cover sheet with the	ne correspondence a	ddress		
A SHORTENED STATUTORY PE WHICHEVER IS LONGER, FROM - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date - If NO period for reply is specified above, the in- Failure to reply within the set or extended per Any reply received by the Office later than the earned patent term adjustment. See 37 CFR	M THE MAILING DA e provisions of 37 CFR 1.13 of this communication. maximum statutory period w iod for reply will, by statute, ee months after the mailing	ATE OF THIS COMMUNICAT 16(a). In no event, however, may a reply be rill apply and will expire SIX (6) MONTHS to cause the application to become ABAND	ION. the timely filed from the mailing date of this DNED (35 U.S.C. § 133).			
Status						
•	2b)⊠ This ondition for allowar	ay 2006. action is non-final. ace except for formal matters, ax parte Quayle, 1935 C.D. 11		ne merits is		
Disposition of Claims						
4)	is/are withdrawed. ejected. ted to.	vn from consideration.				
Application Papers						
• • • • • • • • • • • • • • • • • • • •	is/are: a) acce any objection to the c including the correcti	epted or b) objected to by the drawing(s) be held in abeyance. on is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 C			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) D Notice of References Cited (PTO-892)		4) 🔲 Interview Summ	nary (PTO-413)			
Notice of Draftsperson's Patent Drawing Information Disclosure Statement(s) (PT Paper No(s)/Mail Date		Paper No(s)/Ma		rO-152)		

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 29 & 31-36 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Considering claim 29, the instant claim is rejected as not being directed to statutory subject matter. In particular, the claimed language merely recites mathematical computations, and thus are considered abstract ideas and is not patentable. Diehr, 450 U.S. at 185, 209 USPQ at 7; accord, e.g., Chakrabarty, 447 U.S. at 309, 206 USPQ at 197; Parker v. Flock, 437 U.S. 584, 589, 198 USPQ 193, 197 (1978); Benson 409 U.S. at 67-68, 175 USPQ at 675; Funk, 333 U.S. at 130, 76 USPQ at 281. Nor can one patent "a novel and useful mathematical formula, "Flook, 437 U.S. at 585, 198 USPQ at 195.

For claims including such excluded subject matter to be eligible, the claim must be for a practical application of the abstract idea, law of nature or natural phenomenon. Diehr, 450 U.S. at 187, 209 USPQ at 8 ("application of law of nature or mathematical formula to a known structure or process may well be deserving of a patent protection"); Benson, 409, US at 71, 175 USPQ at 676 (rejecting formula claim because it has no substantial practical application"). Thus if the invention "transforms" a particle or physical object to a different state or thing; or produces a useful, concrete or tangible result. However, the examiner does not find that claims 29 & 31 transforms and article or produces a tangible result.

Instead the instant claims recite a method for "determining at least first second, and third correlation values", "computing a Euclidean distance", "determining at least fourth, fifth & sixth correlation values" "computing a Euclidean distance", updating the Euclidean distance", and "associating the third packet with the known source". These method steps are directed to mathematical computations and do not recite in the affirmative that a tangible result is achieved. Nor, does the instant claims recite any language that affirms any particle or object is transformed from one state to a different state.

Claims 32-36, which depend from claims 29 & 31, are likewise treated.

Claim 29 is also rejected as being directed to a formula in the abstract. Diehr, 450 U.S. at 191, 209 USPQ at 10, "Phenomenon of nature, though just discovered, mental processes, nor

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abstract intellectual concepts are not patentable, as they are basic tools of scientific and technological work", Benson, 409 U.S. at 71-72, 175 USPQ at 676; cf. Diehr, 450 U.S. at 187, 209 USPQ at 8 (stressing that the patent applications in that case "did not seek to pre-empt the use of [an] equation, but instead sought only to "foreclose from others the use of that equation in conjunction with all other steps in their claimed process). Even though claim 29 falls within statutory type (i.e. a method), the instant claim is directed to known formula, (i.e., the Euclidean distance).

Allowable Subject Matter

3. Claims 29 & 31-36 are allowed over prior art of record.

Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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or faxed to:

(571) 273-8300, (for formal communications intended for entry)

Or:

(571) 273-7290 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reuben M. Brown whose telephone number is (571) 272-7290. The examiner can normally be reached on M-F (9:00-6:00), First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Kelley can be reached on (571) 272-7331. The fax phone numbers for the organization where this application or proceeding is assigned is (571) 273-8300 for regular communications and After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Reuben M. Brown

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